

PRODUCTION OF CRYSTALLINE MALTITOL

Publication number: JP9132587 (A)

Also published as:

Publication date: 1997-05-20

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Applicant(s): TOWA CHEMICAL IND

Classification:

- international: C07H1/00; B01J25/00; C07B61/00; C07B63/00; C07H15/04;
C07H1/00; B01J25/00; C07B61/00; C07B63/00; C07H15/00;
(IPC1-7): C07B61/00; C07H15/04; B01J25/00; C07B63/00;
C07H1/00

- European:

Application number: JP19950313721 19951108

Priority number(s): JP19950313721 19951108

Abstract of JP 9132587 (A)

PROBLEM TO BE SOLVED: To obtain high-purity crystalline maltitol at low cost by using a Raney catalyst for fixed bed dealt with conventional various problems. SOLUTION: This crystalline maltitol is obtained through the following three consecutive processes: (A) 1st process: a continuous catalytic hydrogenation of a syrup 30-75wt.% in concentration containing 81-90wt.%, on a solid basis, of mallose to produce the corresponding sugar alcohol syrup; (B) 2nd process: the sugar alcohol syrup is fed into a cation exchange resin column and subjected to chromatographic separation to obtain a high-maltitol content syrup fraction containing >=95wt.%, on a solid basis, of maltitol; and (C) 3rd process: the high-maltitol content syrup fraction is concentrated and then crystallized continuously to obtain the objective crystalline maltitol and a mother liquor, and the mother liquor is continuously mixed with the sugar alcohol syrup derived from the 1st process, and the resultant mixture is subjected to the 2nd process.

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